# Survey About Threats and Conservation Needs for Fish and Wildlife Habitats in Indiana

Summary of Results – Kankakee (Region 2)





### **Section III: Threats to Fish and Wildlife Habitats**

11. How would you describe the **overall quality** of fish and wildlife habitats within **HABITAT** in Kankakee (Region 2)? (Check only one)

	Very F	Poor	Pod	or	Satisfa	ctory	God	od	Very	good	I don't	know	Total
	%	N	%	N	%	N	%	N	%	N	%	N	Responses
Aquatic systems	0.0	0	42.9	9	33.3	7	19.0	4	4.8	1	0.0	0	21
Agricultural lands	15.0	3	60.0	12	10.0	2	15.0	3	0.0	0	0.0	0	20
Barren lands	0.0	0	100.0	1	0.0	0	0.0	0	0.0	0	0.0	0	1
Developed Lands	0.0	0	57.1	4	28.6	2	0.0	0	14.3	1	0.0	0	7
Forests	7.1	1	42.9	6	35.7	5	14.3	2	0.0	0	0.0	0	14
Grasslands	9.5	2	38.1	8	38.1	8	14.3	3	0.0	0	0.0	0	21
Subterranean systems	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Wetlands	4.8	1	38.1	8	33.3	7	23.8	5	0.0	0	0.0	0	21
Total	6.7	7	45.7	48	29.5	31	16.2	17	1.9	2	0.0	0	105

12. How would you describe the total amount and overall quality of fish and wildlife habitats within **HABITAT** in Kankakee (Region 2) since 2005? (Check one for each line item)

#### Amount of fish and wildlife habitats within HABITAT since 2005

	Incre	ase	About the	same	Decre	ase	I don't	know	
		N		N		N		N	Total Responses
Aquatic systems	28.6	6	57.1	12	14.3	3	0.0	0	21
Agricultural lands	15.0	3	30.0	6	55.0	11	0.0	0	20
Barren lands	0.0	0	0.0	0	100.0	1	0.0	0	1
Developed Lands	37.5	3	37.5	3	25.0	2	0.0	0	8
Forests	0.0	0	42.9	6	50.0	7	7.1	1	14
Grasslands	54.5	12	18.2	4	27.3	6	0.0	0	22
Subterranean systems	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Wetlands	33.3	7	33.3	7	33.3	7	0.0	0	21
Total	29.0	31	35.5	38	34.6	37	0.9	1	107

### Quality of fish and wildlife habitats within HABITAT since 2005

	Incre	ase	About the	e same	Decre	ase	10	don't know	
		N		N		N		N	Total Responses
Aquatic systems	28.6	6	57.1	12	14.3	3	0.0	0	21
Agricultural lands	10.0	2	40.0	8	50.0	10	0.0	0	20
Barren lands	0	0	0	0	0	0	0	0	0
Developed Lands	37.5	3	37.5	3	25.0	2	0.0	0	8
Forests	7.1	1	42.9	6	42.9	6	7.1	1	14
Grasslands	38.1	8	19.0	4	42.9	9	0.0	0	21
Subterranean systems	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Wetlands	23.8	5	28.6	6	47.6	10	0.0	0	21
Total	23.8	25	37.1	39	38.1	40	1.0	1	105

13. How would you predict about the total amount and overall quality of fish and wildlife habitats within **HABITAT** in Kankakee (Region 2) over the next 10 years? (Check one for each line item)

Amount of fish and wildlife habitats within HABITAT over the next 10 years

	Incre	ase	About the	same	Decre	ase	10	don't know	
		N		N		N		N	Total Responses
Aquatic systems	28.6	6	57.1	12	14.3	3	0.0	0	21
Agricultural lands	30.0	6	25.0	5	45.0	9	0.0	0	20
Barren lands	0.0	0	0.0	0	100.0	1	0.0	0	1
Developed Lands	12.5	1	50.0	4	37.5	3	0.0	0	8
Forests	7.1	1	28.6	4	57.1	8	7.1	1	14
Grasslands	27.3	6	40.9	9	27.3	6	4.5	1	22
Subterranean systems	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Wetlands	23.8	5	33.3	7	42.9	9	0.0	0	21
Total	23.4	25	38.3	41	36.4	39	1.9	2	107

### Quality of fish and wildlife habitats within HABITAT over the next 10 years

Great Lakes (Region 1)	Incre	ase	About the	e same	Decre	ase	10	don't know	
		N		N		N		N	Total Responses
Aquatic systems	33.3	7	38.1	8	28.6	6	0.0	0	21
Agricultural lands	15.0	3	40.0	8	45.0	9	0.0	0	20
Barren lands	0	0	0	0	0	0	0	0	0
Developed Lands	25.0	2	25.0	2	50.0	4	0.0	0	8
Forests	14.3	2	14.3	2	64.3	9	7.1	1	14
Grasslands	27.3	6	31.8	7	36.4	8	4.5	1	22
Subterranean systems	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Wetlands	19.0	4	28.6	6	52.4	11	0.0	0	21
Total	22.6	24	31.1	33	44.3	47	1.9	2	106

14. **Currently**, to what extent do you think the following general categories of threats **apply** to fish and wildlife habitats within **HABITAT** in Kankakee (Region 2)? (Check one for each line item)

Great Lakes (Region 1)	Signfic threa		Moder Threa		Mino Thre		Not thre	-	I dor kno		Total
		N		N		N		N		N	Responses
Residential and commercial development	38.8	40	43.7	45	15.5	16	1.0	1	1.0	1	103
Agriculture and aquaculture	62.5	65	23.1	24	9.6	10	3.8	4	1.0	1	104
<b>Energy production and mining</b>	7.8	8	15.5	16	37.9	39	30.1	31	8.7	9	103
Transportation and service corridors	12.4	13	36.2	38	41.9	44	6.7	7	2.9	3	105
Biological resource use	9.6	10	13.5	14	49.0	51	22.1	23	5.8	6	104
Human intrusion and disturbance	32.7	34	39.4	41	22.1	23	2.9	3	2.9	3	104
Natural systems modifications	41.3	43	36.5	38	17.3	18	1.9	2	2.9	3	104
Invasives and other problematic species and genes	57.7	60	28.8	30	10.6	11	1.9	2	1.0	1	104
Pollution	18.3	19	40.4	42	28.8	30	2.9	3	9.6	10	104
Climate change and severe weather	24.0	25	38.5	40	20.2	21	8.7	9	8.7	9	104
Other stressors	12.9	12	31.2	29	31.2	29	7.5	7	17.2	16	93

15. You indicated a number of general categories as significant or moderate threats to fish and wildlife habitats within **HABITAT** in Kankakee (Region 2). Please indicate which of the following are specific threats to fish and wildlife habitats within HABITAT in Kankakee (Region 2) and their trends over the next 10 years. You may add additional threats you think are important using the "Other, please specify" option.

**Residential and Commercial Development** 

	Tov	what ex	ktent is th		e a curre BITAT in					ife ha	bitats within	Hov	v will 1	the signif	icance	of this	_	t change	over	the next 10
Great Lakes (Region 1)	Signfi thre		Mode Thre	rate	Min Thre	or	Not thre	а	l do kno	-	Total	Incre	ase	Remaii sam		Decre	ase	l doı kno	-	Total
		Ν		Ν		Ν		Ν		N	Responses		Ν		Ν		N		N	Responses
Housing and urban areas	43.9	36	41.5	34	11.0	9	2.4	2	1.2	1	82	76.6	59	18.2	14	0.0	0	5.2	4	77
Commercial and industrial areas	35.0	28	38.8	31	22.5	18	1.3	1	2.5	2	80	69.3	52	21.3	16	0.0	0	9.3	7	75
Tourism and recreation areas (e.g., sites with a substantial footprint – golf courses, campgrounds, etc.)	7.4	6	29.6	24	54.3	44	6.2	5	2.5	2	81	35.1	27	51.9	40	0.0	0	13.0	10	77

Other responses listed:

Response text:	N
fish and wildlife restricting sportsmans land use needlessly	1
increase in preditors	1
non point contaminants	1
Total responses:	3

**Agriculture and Aquaculture** 

8	To w	hat ext	ent is this	issue a			to fish ar (Region		life habit	ats wit	hin HABITAT in	How	will the	e significa	nce of t	his thr	eat ch	nange ov	er the	next 10 years?
Great Lakes (Region 1)	Signfio thre		Mode Thre		Min Thre		Not a t	hreat N	l doi kno	-	Total Responses	Incre	ase N	Remaii sam		Decre	ease N	l doi kno	-	Total Responses
Annual and perennial nontimber crops	55.8	48	25.6	22	14.0	12	3.5	3	1.2	1	86	63.0	51	32.1	26	0.0	0	4.9	4	81
Wood and pulp plantations	0.0	0	10.6	9	35.3	30	38.8	33	15.3	13	85	5.1	4	69.6	55	1.3	1	24.1	19	79
Livestock farming and ranching	15.1	13	41.9	36	26.7	23	14.0	12	2.3	2	86	32.5	26	55.0	44	5.0	4	7.5	6	80
Aquaculture	0.0	0	6.0	5	28.6	24	35.7	30	29.8	25	84	3.8	3	52.6	41	0.0	0	43.6	34	78
Conversion of habitat to annual crops	61.2	52	24.7	21	10.6	9	1.2	1	2.4	2	85	71.6	58	23.5	19	0.0	0	4.9	4	81

Other responses listed:

Response text: N
Total responses: 0

**Energy Production and Mining** 

<i>5.</i>	To wh	at exte	ent is this	issue a			o fish and Region 2)		ife habit	ats w	rithin HABITAT in	How	will the	e significa	nce of t	his thre	eat ch	ange ove	er the	next 10 years?
Great Lakes (Region 1)	Signfic threa		Mode Thre		Min Thre	_	Not threa		I doi kno			Incre	ase	Remaii sam		Decre	ase	I don knov	-	Total
		N		N		N		N		N	Total Responses		N		N		N		N	Responses
Oil and gas drilling	18.2	4	4.5	1	54.5	12	18.2	4	4.5	1	22	30.0	6	60.0	12	0.0	0	10.0	2	20
Mining and quarrying	13.6	3	9.1	2	59.1	13	13.6	3	4.5	1	22	26.3	5	63.2	12	0.0	0	10.5	2	19
Renewable energy production	27.3	6	45.5	10	18.2	4	4.5	1	4.5	1	22	60.0	12	30.0	6	0.0	0	10.0	2	20
Fossil fuel energy production	13.6	3	18.2	4	45.5	10	18.2	4	4.5	1	22	20.0	4	65.0	13	5.0	1	10.0	2	20
Shale gas development (e.g., fracking)	18.2	4	9.1	2	45.5	10	18.2	4	9.1	2	22	20.0	4	60.0	12	0.0	0	20.0	4	20

Other responses listed:

Response text:	N
Fish and Wildlifes restricting sportsmans land use needlessly	1
Total responses:	1

**Transportation and Service Corridors** 

_	To what	extent	is this issu	e a curr	ent threa		n and wild on 2)?	dlife ha	bitats wit	hin H	ABITAT in Kankakee	How	will th	ne significa	nce of	this thre	eat ch	nange ove	er the i	next 10 years?
Great Lakes (Region 1)	Signfio thre	at Threat Threat		Not a th	hreat	I don knov			Incre	ase	Remair sam		Decre	ease	l dor kno	-	Total			
		N		N		N		N		Ν	Total Responses		N		N		Ν		N	Responses
Roads and railroads	38.0	19	52.0	26	10.0	5	0.0	0	0.0	0	50	69.4	34	30.6	15	0.0	0	0.0	0	49
Utility and service lines	12.0	6	58.0	29	28.0	14	2.0	1	0.0	0	50	63.3	31	36.7	18	0.0	0	0.0	0	49
Flight paths	0.0	0	12.0	6	36.0	18	38.0	19	14.0	7	50	8.2	4	71.4	35	0.0	0	20.4	10	49
Shipping lanes	2.0	1	4.1	2	14.3	7	61.2	30	18.4	9	49	0.0	0	75.0	36	0.0	0	25.0	12	48

Other responses listed:

Response text:	N
Because of the decline in fossil fuels, I think the transportation issues will decrease.	1
Total responses:	1

**Biological Resource Use** 

8	То	what e	extent is th				nreat to fi takee (Re			fe ha	bitats within	How	/ will	the signi	ficance	of this yea	_	t change	over	the next 10
Great Lakes (Region 1)	Signfic threa		Moder Threa	at	Mine Thre		Not threa		I doi kno	w	Total	Increa	ase	Remai san		Decre	ase	I don knov	-	Total
		N		N		Ν		N		Ν	Responses		Ν		N		N		N	Responses
Forestry practices (e.g., silvicultural methods leading to the lack of early successional habitat)	21.7	5	34.8	8	17.4	4	17.4	4	8.7	2	23	36.4	8	50.0	11	0.0	0	13.6	3	22

Other responses listed:

Response text:	N
Because of less fossil fuel people will burn wood more.	1
Total responses:	1

### **Human Intrusion and Disturbance**

	То	what e	extent is t	his issu	ie a curre	nt thre	eat to fi	sh an	d wildli	fe hal	oitats within	Hov	v will t	he signifi	cance (	of this t	hreat	change	over	the next 10
				HA	BITAT in	Kankal	kee (Re	gion 2	2)?							years	s?			
Great Lakes (Region 1)	Signfi	cant	Mode	rate	Min	or	Not	а	I do	n't				Remaii	n the			I do	n't	
	thre	eat	Thre	at	Thre	at	thre	at	kno	w	Total	Incre	ase	sam	ne .	Decre	ase	kno	w	Total
		Ν		Ν		Ν		Ν		N	Responses		N		Ν		N		Ν	Responses
Recreation activities (e.g., ATVs,																				
trail use, horseback riding, high-	20.5	15	53.4	39	17.8	13	8.2	6	0.0	0	73	58.6	41	41.4	29	0.0	0	0.0	0	70
speed boating, canoeing)																				

Other responses listed:

Response text:	N
fish and wildlife restricting sportsmans access needlessly	1
Less significance because of expense of fossil fuels	1
urban sprawl	1
Total responses:	3

**Natural Systems Modification** 

·	To wha	at exter	nt is this is	ssue a d					fe habit	ats w	ithin HABITAT in	Ho	w will	the signif	ficance		_	it change	over	the next 10
					Kank	akee (	Region 2)	)?								yea	rs?			
Great Lakes (Region 1)	Signfid	cant	Mode	rate	Min	or	Not	а	I do	n't				Remaii	n the			I dor	ո't	
	thre	at	Thre	at	Thre	Threat		at	kno	w	Total	Incre	ase	sam	ie	Decre	ase	kno	w	Total
		N		N		N		N		N	Responses		N		N		N		N	Responses
Dams and water	25.6	20	29.5	23	28.2	22	11.5	۵	5.1	4	78	48.6	34	41.4	29	0.0	0	10.0	7	70
management/use	25.0	20	23.3	23	20.2	22	11.5		3.1	-	70	40.0	34	41.4	23	0.0	0	10.0	<b>'</b>	70
Fire and fire suppression	24.7	19	24.7	19	26.0	20	15.6	12	9.1	7	77	28.6	20	57.1	40	1.4	1	12.9	9	70
Log jam removal	16.7	13	28.2	22	23.1	18	25.6	20	6.4	5	78	21.4	15	58.6	41	1.4	1	18.6	13	70

Over-mowing of natural	21.8	17	42.3	33	23.1	18	6.4	5	6.4	5	78	30.6	22	59.7	43	1 4	1	8.3	6	72
areas	21.0	1,	72.3	33	25.1	10	0.4		0.4	,	70	30.0		33.7	43			0.5		72
Conversion of natural	72 7	56	20.8	16	5.2	1	1 2	1	0.0	0	77	72.2	52	25.0	18	2 8	2	0.0	0	72
habitats to other land uses	12.1	30	20.8	10	3.2	4	1.5		0.0	U	//	12.2	52	23.0	10	2.8		0.0	U	12

Response text:	N
COAL MINE RECLAMATIONIS BECOMING MORE ENVIORNMENTALY DESTRUCTIVE.	1
fish and wildlife restricting sportsmans access needlessly	1
I want to be optimistic and say that people will catch on to what is happening to the environment.	1
over restrictive policies	1
Total responses:	4

**Invasives and Other Problematic Species/Genes** 

	~			$\sim$ $\mathbf{P}$	02001							_								
	То	what e	extent is	this iss	ue a cur	rent th	reat to f	ish aı	nd wildlit	fe habi	tats within	How	/ will t	he signif	icance	of this	threa	t change	over	the next 10
				H.	ABITAT ii	ո Kank	akee (Re	gion	2)?							yeaı	rs?			
Great Lakes (Region 1)	Signfi	cant	Mode	rate	Min	or	Not	а	I do	n't				Remaii	n the			I do	n't	
	thre	at	Thre	eat	Thre	at	threa	at	kno	w	Total	Incre	ase	sam	ie	Decre	ase	kno	w	Total
		N		N		N		N		N	Responses		N		N		N		N	Responses
Invasive/alien species	71.8	61	27.1	23	1.2	1	0.0	0	0.0	0	85	91.3	73	6.3	5	1.3	1	1.3	1	80
Problematic native species (e.g. overabundant native deer or algae)	20.9	18	37.2	32	30.2	26	10.5	9	1.2	1	86	45.8	38	50.6	42	0.0	0	3.6	3	83
Plant diseases	8.0	7	29.9	26	26.4	23	9.2	8	26.4	23	87	28.9	24	33.7	28	.0	0	37.3	31	83
Introduced genetic material (such																				
as crop, seed stock, biocontrol,	10.5	9	36.0	31	31.4	27	3.5	3	18.6	16	86	47.0	39	28.9	24	0.0	0	24.1	20	83
stocked/released species, etc.)																				

Other responses listed:

Response text:	N
All these issues are significant because of our addiction to GMO's, Insecticides, etc.	1
Beavers, geese	1
non-local genotype seed	1
Total responses:	3

## **Pollution**

	То	what e	xtent is tl	tent is this issue a current threat to fish and wildlife habitats within  HABITAT in Kankakee (Region 2)?  Moderate Threat N N N N N N Responses N N N N N N N N N N N N N N N N N N														over	the next 10	
Great Lakes (Region 1)	Signfi					_								Remaii	n the				-	
	thre	at	Thre	at	Thre	at	thre	at	kno	w	Total	Incre	ase	sam	ie	Decre	ease	knov	N	Total
		N		N		N		Ν		N	Responses		N		N		Ν		N	Responses
Runoff from roads/service corridors	33.9	20	47.5	28	16.9	10	0.0	0	1.7	1	59	62.1	36	32.8	19	0.0	0	5.2	3	58
Chemical spills	22.0	13	33.9	20	39.0	23	.0	0	5.1	3	59	36.8	21	49.1	28	.0	0	14.0	8	57

Point source pollution from commercial/industrial sources	25.9	15	53.4	31	17.2	10	.0	0	3.4	2	58	43.1	25	44.8	26	3.4	2	8.6	5	58
Air pollution (e.g., smoke, mercury emissions)	25.4	15	25.4	15	40.7	24	0.0	0	8.5	5	59	34.5	20	50.0	29	1.7	1	13.8	8	58
Household sewage and urban water waste	15.3	9	42.4	25	32.2	19	3.4	2	6.8	4	59	37.9	22	48.3	28	3.4	2	10.3	6	58
Agriculture, residential, and forestry effluents	40.7	24	42.4	25	15.3	9	0.0	0	1.7	1	59	62.1	36	27.6	16	1.7	1	8.6	5	58
Garbage and solid waste	18.6	11	37.3	22	39.0	23	1.7	1	3.4	2	59	41.4	24	50.0	29	1.7	1	6.9	4	58
Excess energy (e.g., noise/light pollution, warm water discharge, etc.)	20.7	12	27.6	16	37.9	22	8.6	5	5.2	3	58	35.1	20	52.6	30	1.8	1	10.5	6	57

Response text:	N
These issues will decrease as the populace develops an ethic about these issues and demands reform.	1
Total responses:	1

**Climate Change and Severe Weather** 

	To wha	at exter	nt is this i	ssue a	current th in Kank				dlife ha	bitats	within HABITAT	Hov	will t	he signific	cance	of this t		t chang	e ove	r the next 10
Great Lakes (Region 1)	Signfi thre		Mode Thre		Min Thre		Not thre		I doi kno	-	Total Responses	Incre	ase N	Remain same	-	Decre	ease N	I do kno		Total Responses
Changing frequency, duration, and intensity of drought	46.0	29	42.9	27	7.9	5	0.0	0	3.2	2	63	86.4	51	5.1	3	0.0	0	8.5	5	59
Changing frequency, duration, and intensity of floods	51.6	32	38.7	24	6.5	4	0.0	0	3.2	2	62	86.0	49	5.3	3	0.0	0	8.8	5	57
Shifting and alteration of habitats due to climate change	30.2	19	54.0	34	12.7	8	0.0	0	3.2	2	63	86.4	51	5.1	3	0.0	0	8.5	5	59
Temperature extremes	26.2	16	52.5	32	19.7	12	0.0	0	1.6	1	61	86.0	49	5.3	3	0.0	0	8.8	5	57
Shifting seasons/phenology	30.2	19	47.6	30	17.5	11	0.0	0	4.8	3	63	81.4	48	10.2	6	0.0	0	8.5	5	59

Other responses listed:

Response text:	N
Because of Climate Change, all these issues will increase.	0
Total responses:	1

### **Other Stressors**

					BITAT in	Kanka	kee (Re	egion	2)?							year	s?			
Great Lakes (Region 1)	Signfica		Moder		Mino		Not		I do					Remai				I don		
	threa		Threa		Thre		thre		kno		Total	Incre		sam	_	Decre		knov		Total
Low genetic diversity (due to		N		N		N		N		N	Responses		N		N		N		N	Responses
reduced population size, species inbreeding, etc.)	23.1	9	41.0	16	23.1	9	7.7	3	5.1	2	39	52.8	19	36.1	13	0.0	0	11.1	4	36
Diseases	18.2	6	51.5	17	18.2	6	3.0	1	9.1	3	33	46.7	14	26.7	8	0.0	0	26.7	8	30
Other responses listed:																				
Response text:																				<u> </u>
Increases will happen until there	is public	outcry	<b>y</b> .																	
lack of habitat																				
less use of state land due to restr	riction use	need	dlessly																	<u> </u>
Total responses:																				1
The growing dissconnect betwee conservation education is needed			-				•		•								rces.	More	ions f	
The growing dissconnect betwee conservation education is needed wildlife resources.  As with AG lands (previously desmowing for pasture and human-actionate change and invasive specification in quality / /	d to increaction of the cribed) a cassociated cies will lib	main d gras kely ir	threat is slands. S	's kno s loss o Summ n the f	wledge, of CRP g er mowi future to	expe rassla ing sh redu	rience inds du iould b ice hal	ue to be time	high coned to	onversallow even	nake informaed ult in informed sion to corn pro for successful r further. Weta	decision oduction lesting c Inds, wh	for e f speci ich al	ommitm thanol. <i>i</i> cies like ready ha	nent ar Anothe Boboli	nd cons er issue nks.	rces. struct	More tive acti	g of	or !
The growing dissconnect betwee conservation education is needed wildlife resources.  As with AG lands (previously desmowing for pasture and human-actimate change and invasive specification in quality / / Failing tile systems may increase.	d to increaction cribed) a cassociated cies will lile.	main d gras kely ir Wast	threat is slands. Someone of the stands of t	s loss of Summ In the f	wledge, of CRP g er mowi future to deer ex	experasslating shored ists 60	rience ands du lould b ace hat	es and ue to be time bitat miles	high coned to quality	onversallow even	nake informaed ult in informed sion to corn pro for successful r further. Weta	decision oduction testing c Inds, wh	for e for e f spec ich al regior	ommitm thanol. A cies like ready ha	nent ar Anotho Boboli ave iss	nd cons er issue nks. ues wit	rces. struct	More tive acti	g of	s, will
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Response text: The growing dissconnect betwee conservation education is needed wildlife resources. As with AG lands (previously desmowing for pasture and human-aclimate change and invasive specification in quality / / Failing tile systems may increase. For invertebrates, the use of neo impacts from confined animal fee Invasive species - already out of decreases that habitat value to be (not planted) early successional functional fee Invasive for invertebrates and invasive species for invertebrates. The public understanding of the Possibility of Wind Turbines in New increase over the next 10 years. Solar UV exposure to all animals. The primary reason for loss of will production, associated with ethat Threat of CWD entering Indiana for the source of	cribed) a associated cies will lil . Chronic nicotinoidedlot ope control or oth game habitats a he importewton Collidife hab nol. As lo	main digras wely ir Wast diseed ration and is a signance unty, time a sitat in ong as	threat is slands. So the ract in the ract	s loss of Summ the fase in the speciand hang might for the fand of	of CRP ger mowifuture to deer existed quite per legion bitats and gratory but the following region where well and the second control of the per legion where well and the second control of the per legion where well and the second control of the per legion where well and the second control of the per legion where well and the second control of the seco	experies exp	inds duould buce hab 0-100 ily killir ncreas y state mix. / aintain nd bat for vari oss of c	ue to ue timbitat miles and off with the ue to u	high coned to a quality into II f a sign d species pecies ervation I	onversallow even linois; ificant exercises wo ality we erns, a erns, a ands t	nake informaed ult in informed sion to corn profer successful refurther. Weta could spread in the portion of all it port	decision oduction nesting c Inds, wh nto this nsect lif ange / , om large s. or morta upply for CRP. this orn, we	for e for e f spec ich al regior e nea / Fire tracts lity of r all sp is dri are go	thanol. Acies like ready had not	Anothe Boboli ave isso crop fi on on ected ecies. lants a he higlee loss	er issue nks. ues wit elds. publicalands the Signification anii h price ses.	rces. is the investment of the	More tive active active active specification where the specification is a single control of the specification and the specification is a single control of the specification in the specification is a single control of the specification in the specification is a single control of the specification in the specification is a single control of the specification in the specification is a single control of the specification in the specification is a single control of the specification in the specification is a single control of the specification in the specification is a single control of the specification in the specification is a single control of the specification in the specification is a single control of the specification in the specification is a single control of the specification in the specification is a single control of the specification in the specification is a single control of the specification in the specification is a single control of the specification in the specification is a specification in the specification in the specification is a specification in the specification in the specification in the specification is a specification in the specification in	ng of pecie ands I NAT	s, will
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### Section IV: Conservation Actions for Fish and Wildlife Habitats

#### Directions:

When responding to the questions in this section, please think about conservation actions for fish and wildlife habitats within **HABITAT** in Kankakee (Region 2).

17. Please indicate (1) the importance of the following general categories of conservation actions for fish and wildlife habitats within **HABITAT** in Kankakee (Region 2) over the next 10 years, and (2) considering your responsibility within your agency/organization, whether you have taken a general category of conservation actions for fish and wildlife habitats within **HABITAT** in Kankakee (Region 2) since 2005 or have plans to do so.

			tent do yo e habitats								nt for fish and .0 years?		rvation		this cat	egory for	fish and	:ly plan to take   wildlife habitats n 2)?
Great Lakes (Region 1)	Ver Impor	•	Modera Impor	•	Somev Impor		No Impor	-	I don't	know	Total	Yes	S	No	)	I don't	know	
		N		N		N		N		N	Responses		N		N		N	Total Responses
Land/water protection	73.5	75	19.6	20	6.9	7	0.0	0	0.0	0	102	70.4	57	14.8	12	14.8	12	81
Land/water/species management	79.4	81	17.6	18	2.9	3	.0	0	.0	0	102	88.9	72	3.7	3	7.4	6	81
Education and awareness	53.4	55	35.9	37	10.7	11	.0	0	0.0	0	103	81.5	66	7.4	6	11.1	9	81
Law and policy	41.6	42	42.6	43	10.9	11	1.0	1	4.0	4	101	30.4	24	38.0	30	31.6	25	79
Livelihood, economic, and other incentives	26.7	27	50.5	51	15.8	16	1.0	1	5.9	6	101	31.6	25	36.7	29	31.6	25	79
External capacity building	37.0	37	30.0	30	22.0	22	1.0	1	10.0	10	100	32.1	26	30.9	25	37.0	30	81

18. You indicated that in your opinion conservation actions relating to the following general categories would be very or moderately important for fish and wildlife habitats within **HABITAT** in Kankakee (Region 2) over the next 10 years. Please indicate the importance of the following specific conservation actions within these general categories for fish and wildlife habitats within HABITAT in Kankakee (Region 2). You may add additional conservation actions you think are important using the "Other, please specify" option. (Check one for each line item)

### **Land/Water Protection**

Great Lakes (Region 1)	Very important		Moderately important		Some impo	No impo				Total	
	N			N		N		N		N	Responses
Acquire currently unprotected aquatic systems (manage and/or educate for easement habitat values)	68.4	13	26.3	5	5.3	1	0.0	0	0.0	0	19
Acquire currently unprotected barren lands	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0
Acquire currently unprotected forests	63.6	7	27.3	3	9.1	1	0.0	0	0.0	0	11
Acquire currently unprotected grasslands	84.2	16	15.8	3	0.0	0	0.0	0	0.0	0	19
Acquire currently unprotected wetlands	95.0	19	5.0	1	0.0	0	0.0	0	0.0	0	20
Acquire currently unprotected subterranean habitats	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Preserve currently existing corridors	86.5	77	7.9	7	4.5	4	1.1	1	.0	0	89
Acquire conservation easements to protect important wildlife habitats	71.1	64	21.1	19	7.8	7	0.0	0	0.0	0	90
Reduce conversion to cropland	72.2	65	15.6	14	11.1	10	1.1	1	0.0	0	90
Build/strengthen CRP partnerships	46.7	42	34.4	31	10.0	9	6.7	6	2.2	2	90

Response text:
allow more not less use of state lands

1
Total responses:
1

**Land/Water/Species Management** 

Great Lakes (Region 1)		Very important		Moderately important		what		Not important		n't	
	impo		impo		impo		impo		kno	o <b>w</b> N	Total
Control invasive species in agricultural lands	41.2	N 7	47.1	N 8	5.9	N 1	5.9	N 1	0.0	0	Responses 17
Control invasive species in aquatic systems (e.g., Asian carp, zebra mussels, invasive			=	_							
aquatic plants)	60.0	12	25.0	5	10.0	2	5.0	1	0.0	0	20
Control invasive species in barren lands	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0
Control invasive species in developed lands	50.0	2	50.0	2	0.0	0	0.0	0	0.0	0	4
Control invasive species in forests	83.3	10	16.7	2	0.0	0	0.0	0	0.0	0	12
Control invasive species in grasslands	70.0	14	25.0	5	5.0	1	0.0	0	0.0	0	20
Control invasive species in wetlands	81.0	17	14.3	3	4.8	1	0.0	0	0.0	0	21
Control invasive species in subterranean systems	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Control problematic species (e.g., deer, raccoon, geese, domestic cat, feral hog) in agricultural lands	11.8	2	52.9	9	35.3	6	0.0	0	0.0	0	17
Control problematic native species in aquatic systems	20.0	4	30.0	6	45.0	9	5.0	1	0.0	0	20
Control problematic species (e.g., deer, raccoon, skunk, coyote, domestic cat, feral hog) in barren lands	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0
Control problematic species (e.g., deer, raccoon, geese, domestic cat, feral hog, exotic/aggressive vegetation) in developed lands	25.0	1	50.0	2	25.0	1	0.0	0	0.0	0	4
Control problematic species (e.g., deer, raccoon, domestic cat, feral hog) in forests	33.3	4	41.7	5	25.0	3	0.0	0	0.0	0	12
Control problematic species (e.g., raccoon, skunk, coyote, domestic cat) in grasslands	15.0	3	30.0	6	40.0	8	15.0	3	0.0	0	20
Control problematic species (e.g., deer, raccoon, domestic cat, feral hog, exotic/aggressive vegetation) in wetlands	28.6	6	47.6	10	19.0	4	4.8	1	0.0	0	21
Control problematic native species in subterranean systems	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Dam removal	12.2	5	31.7	13	19.5	8	29.3	12	7.3	3	41
Decrease E. coli counts	15.8	6	26.3	10	36.8	14	10.5	4	10.5	4	38
Decrease number of combined sewer overflow events	29.3	12	41.5	17	12.2	5	12.2	5	4.9	2	41
Develop and promote farming technologies and practices that have conservation benefits (e.g., cover crops, no till)	63.0	58	26.1	24	9.8	9	1.1	1	0.0	0	92
Ex situ conservation (protection of a species outside of its natural habitat). Please	3.8	3	17.5	14	25.0	20	25.0	20	28.8	23	80

specify:											
Improve drainage management	38.0	35	42.4	39	13.0	12	4.3	4	2.2	2	92
Improve integrated pest management	29.4	5	41.2	7	17.6	3	11.8	2	0.0	0	17
Increase acres of riparian buffers	46.7	43	40.2	37	13.0	12	0.0	0	0.0	0	92
Increase acres enrolled in the Classified Forest and Wildlands Program	20.2	19	42.6	40	24.5	23	10.6	10	2.1	2	94
Link existing habitat blocks through corridor enhancement in agricultural lands	70.6	12	23.5	4	5.9	1	0.0	0	0.0	0	17
Link existing habitat blocks through corridor enhancement in aquatic systems	45.0	9	35.0	7	20.0	4	0.0	0	0.0	0	20
Link existing habitat blocks through corridor enhancement in barren lands	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0
Link existing habitat blocks through corridor enhancement in developed lands	75.0	3	25.0	1	0.0	0	0.0	0	0.0	0	4
Link existing habitat blocks through corridor enhancement in forests	58.3	7	33.3	4	0.0	0	8.3	1	0.0	0	12
Link existing habitat blocks through corridor enhancement in grasslands	65.0	13	20.0	4	10.0	2	5.0	1	0.0	0	20
Link existing habitat blocks through corridor enhancement in wetlands	61.9	13	28.6	6	9.5	2	0.0	0	0.0	0	21
Enhance corridors in subterranean systems	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0
Manage biofuel grasslands	10.8	4	32.4	12	32.4	12	16.2	6	8.1	3	37
Manage urban woodlots	75.0	3	25.0	1	0.0	0	0.0	0	0.0	0	4
Mine reclamation	6.9	5	4.2	3	20.8	15	47.2	34	20.8	15	72
Promote diversity of forest types and successional stages	41.7	5	33.3	4	8.3	1	16.7	2	0.0	0	12
Promote diversity of grassland types and successional stages	65.0	13	25.0	5	10.0	2	0.0	0	0.0	0	20
Promote diversity of wetland types and successional stages	57.1	12	33.3	7	9.5	2	0.0	0	0.0	0	21
Protect and enhance undeveloped shorelines	35.9	14	25.6	10	33.3	13	5.1	2	0.0	0	39
Protect natural water regimes (e.g., withdraws, warm-water discharge)	48.8	20	39.0	16	9.8	4	2.4	1	0.0	0	41
Protect adjacent buffer zones	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0
Reduce losses of fish and wildlife habitats (due to agriculture, urban sprawl, commercial development, etc.)	75.3	70	18.3	17	6.5	6	0.0	0	0.0	0	93
Reduce nutrient and toxin loads (e.g., heavy metals, pharmaceuticals, fertilizers, insecticides)	46.2	43	34.4	32	16.1	15	1.1	1	2.2	2	93
Reduce recreational overuse of aquatic systems	15.8	3	31.6	6	36.8	7	15.8	3	0.0	0	19
Reduce recreational overuse of forests	16.7	2	33.3	4	33.3	4	16.7	2	0.0	0	12
Reduce recreational overuse of grasslands	26.3	5	26.3	5	21.1	4	26.3	5	0.0	0	19
Reduce recreational overuse of wetlands	15.0	3	20.0	4	45.0	9	15.0	3	5.0	1	20
Reduce recreational overuse of subterranean systems	N/A	N/A	N/A								
Reduce stream bank erosion	45.0	9	45.0	9	10.0	2	0.0	0	0.0	0	20
Reduce stream head cutting	25.0	5	30.0	6	30.0	6	0.0	0	15.0	3	20
Reestablish natural disturbance regimes in barren lands	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0
Reestablish natural disturbance regimes in forests	41.7	5	41.7	5	16.7	2	0.0	0	0.0	0	12
Reestablish natural disturbance regimes in grasslands	80.0	16	20.0	4	0.0	0	0.0	0	0.0	0	20
Reestablish natural disturbance regimes in wetlands	52.4	11	33.3	7	9.5	2	0.0	0	4.8	1	21
Reestablish natural disturbance regimes in subterranean systems	N/A	N/A	N/A								
Remove log jams	5.0	1	20.0	4	45.0	9	30.0	6	0.0	0	20

Restore and integrate diversity of habitats into crop-production dominated landscapes	58.8	10	29.4	5	11.8	2	0.0	0	0.0	0	17
Restore and integrate diversity of habitats into developed landscapes	50.0	2	50.0	2	0.0	0	0.0	0	0.0	0	4
Restore habitats and natural systems in aquatic systems	55.0	11	35.0	7	10.0	2	0.0	0	0.0	0	20
Restore habitats and natural systems in barren lands	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0
Restore habitats and natural systems in forests	58.3	7	33.3	4	8.3	1	0.0	0	0.0	0	12
Restore habitats and natural systems in grasslands	95.0	19	5.0	1	0.0	0	0.0	0	0.0	0	20
Restore habitats and natural systems in wetlands	85.7	18	9.5	2	4.8	1	0.0	0	0.0	0	21
Restore habitats and natural systems in subterranean systems	N/A	N/A	N/A								
Species reintroduction. Please specify:	29.0	9	16.1	5	22.6	7	12.9	4	19.4	6	31

#### Ex situ conservation

Response text	N
Pheasant	2
maintain wetland remediation within the local	1
not prefereable	1
should be discouraged	1
Total responses:	5

Species reintroduction listed by respondents:

Response text:	N
enhance T/E spp	2
Total Responses:	2

Other responses listed:

Response text:	N
Yes, Keystone Species, in particular whether they be fauna or flora.	1
Total Responses:	1

### **Education and Awareness**

Great Lakes (Region 1)	Very		1) Very Moderately		Somewhat		Not	Not		ı't		
	important		nnt important		important		nt important		know		Total	
	N		N N		N		N		N		Responses	
Educational programs in general	47.7	42	46.6	41	5.7	5	0.0	0	.0	0	88	
Educational programs specifically for K-12	29.9	26	54.0	47	16.1	14	0.0	0	0.0	0	87	
Improvement of signage and other communication materials in conservation areas	21.8	19	50.6	44	24.1	21	3.4	3	0.0	0	87	
Training programs for stakeholders	42.0	37	45.5	40	8.0	7	3.4	3	1.1	1	88	

Other responses listed:

Response text:Nget public to support conservation and resource mgmt1

Get public to support grassland conservation	1
Get public to support wetland conservation and mgmt	1
get public to value grassland habitat	1
get public to value resources	1
get public to value wetland resources	1
tolerance of other users	1
Total responses:	7

**Law and Policy** 

Great Lakes (Region 1)	Very important		Moderately important		Somewhat important		Not important		Not important I don't know				
		N	N		N				1 И		N N		Total Responses
Increase regulations on invasive species	51.9	41	34.2	27	12.7	10	1.3	1	0.0	0	79		
Change current laws, policies, and regulations. Please specify:	19.1	13	32.4	22	13.2	9	2.9	2	32.4	22	68		
Set private sector standards and codes	15.4	12	32.1	25	29.5	23	6.4	5	16.7	13	78		
Improve compliance with and enforcement of current policies	48.1	38	38.0	30	12.7	10	0.0	0	1.3	1	79		
Reduce urban sprawl through planning and zoning	52.5	42	27.5	22	17.5	14	2.5	2	0.0	0	80		
Establish legal lake levels	16.7	3	38.9	7	44.4	8	0.0	0	0.0	0	18		
Establish rules and guidelines for piers and other structures	22.2	4	33.3	6	33.3	6	11.1	2	0.0	0	18		
Increase compliance of existing rules and regulations for aquatic systems	50.0	9	33.3	6	16.7	3	0.0	0	0.0	0	18		
Establish submergent vegetation control guidelines	27.8	5	50.0	9	16.7	3	5.6	1	0.0	0	18		

Change current laws, policites, and regulations responses:

Response text	N
Allow more fenced hunting	1
Ban the sale of known invasive exotic species.	1
enact law to better fund grassland conservation and mgmt	1
enact law to increase funding for conservation and habitat mgmt	1
improve conservation setaside programs	1
Kankakee River drainage policies - dredged and straighterned is not always the fastest way to move water	1
Log jam removal rules	1
nursery sales	1
Turtle harvest reulations need to be stricter	1
Total responses	9

Other responses listed:

Response text	N
Total responses:	0

# **Livelihood, Economic, and Other Incentives**

Great Lakes (Region 1)	Very important																		- /		Moderately important						Somewhat important													Not important		ı't w	Total	
		N		N		N		N		N		N		N	Responses																													
Link natural resources to livelihoods through nature tourism	27.4	20	41.1	30	27.4	20	2.7	2	1.4	1	73																																	
Support substitution of alternatives for environmentally harmful products and processes	28.8	21	49.3	36	13.7	10	1.4	1	6.8	5	73																																	
Promote market forces (e.g., creation of a nitrogen trading market, promotion of alternative agricultural markets) as a tool for conservation	11.1	8	47.2	34	26.4	19	5.6	4	9.7	7	72																																	
Promote conservation payment programs (e.g., payment for ecosystem services, conservation easements)	56.2	41	32.9	24	9.6	7	0.0	0	1.4	1	73																																	
Promote nonmonetary values of natural systems within the state	59.7	43	29.2	21	11.1	8	.0	0	0.0	0	72																																	
Manage recreational opportunities to be compatible with fish and wildlife habitats	69.4	50	18.1	13	9.7	7	2.8	2	0.0	0	72																																	

Response text	N
I am not in favor of mitigation or trading markets.	1
promote private hunting preserves to reduce stress on free range wildlife	1
use less restrictions on users of state lands	1
Total responses:	3

**External Capacity Building** 

Great Lakes (Region 1)	Very important		-				- /		- /		•				•		Somewhat important						Not important		1100						I don't know		Total
		N		N		N		N		N	Responses																						
Develop institutions and civil society	11.1	7	44.4	28	28.6	18	3.2	2	12.7	8	63																						
Develop alliances and partnerships (e.g., between producers, landowners, and conservation professionals)	65.1	41	28.6	18	6.3	4	0.0	0	0.0	0	63																						
Strengthen conservation financing	77.8	49	17.5	11	4.8	3	0.0	0	0.0	0	63																						
Increase state's capacity for research and monitoring of conservation actions	60.3	38	23.8	15	15.9	10	0.0	0	0.0	0	63																						
Promote green infrastructure	36.5	23	42.9	27	15.9	10	1.6	1	3.2	2	63																						
Promote use of research and science in conservation decision-making processes	58.1	36	27.4	17	11.3	7	3.2	2	0.0	0	62																						

Other responses listed:

Response text	N
increase the amount of state lands open to all sportsmen	1
Total responses:	1